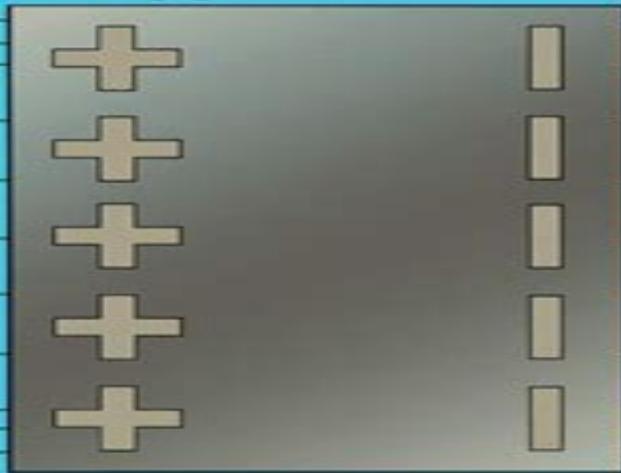


# ELECTRETS IN ENGINEERING

*Fundamentals and  
Applications*



**V. Kestelman  
L. Pinchuk  
V. Goldade**

• Kluwer Academic Publishers •  
• 2000 •

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**VM Jensen**

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## **Electrets In Engineering Fundamentals And Applications:**

*Electrets In Engineering* Vladimir N. Kestelman, Leonid S. Pinchuk, Victor A. Goldade, 2013-11-27 Recently a new sphere in materials science has formed which subject is structure and properties of electret materials used in engineering medicine biotechnology and other branches It is characterized by specific methods of experimental investigations based on recording charge transfer polarization and depolarization of dielectrics and involves original techniques and physico mathematical aids where notions that exist at the interface of several natural and technical sciences are concentrated It embraces a vast area of applications mainly in engineering instrument making electronics medical technique biotechnology and etc has a specialized technological base for electric polarization of dielectrics composed of uncommon technological methods equipment and instrumentation Apparently future fundamental investigations in the domain of electret materials science are to be developed at the interface of computer of dielectrics Elaboration of a simulation physics and physical chemistry model for electric polarization of solid media with uneven charge density distribution complicated by surface phenomena outer electromagnetic heat chemical and other effects presents a grave methodological problem The simulation of structures in which polarization follows diffusion mechanism of chemically active molecules or their fragments and the development of calculation methods for polarized charge relaxation and regularities of dielectric nonlinear properties are the most urgent objectives of current research Success in bioelectret effect studies is anticipated to result in profound widening of natural science knowledge

*Electrets in Engineering* Vladimir N. Kestelman, Leonid S. Pinchuk, Victor A. Goldade, 2014-09-01      **Fibrous Filter Media** Philip Brown, Christopher L Cox, 2017-06-16 Fibrous Filter Media comprehensively covers the types manufacture applications performance and modeling of fibrous filter media Part I introduces the principles of gas and liquid filtration while Part II presents an overview of the types of fibrous filters including details of fiber types fabric construction and applications Part III covers a variety of filtration applications in which fibrous assemblies are used with examples ranging from filtration for improving air quality to medical filters to industrial waste water filtration Finally Part III covers the properties and performance of fibrous filters including chapters on filter performance and simulation With its expert editors and international team of contributors this important book provides information on fibrous filters relevant to fiber and textile scientists and is also ideal for academics and industry professionals working in the field of filtration Dr Philip Brown is Sweetenburgh Professor of polymer and textile engineering at Clemson University USA Dr Christopher Cox is Professor of mathematical sciences at Clemson University USA Systematic and comprehensive coverage of the trends and new technologies being developed in the field of fibrous filter media Focused on the needs of the textiles and filtration industries with a clear emphasis on applied technology Contains contributions from an international team of authors edited by an expert in the field      **Tribology and Biophysics of Artificial Joints** Pinchuk, 2005-12-02 Joint endoprosthetics the science of implanting artificial joints into the human body has been around since the 1960 s and consistent advancements are leading to

better practice materials and mechanics The present book is devoted to the biophysics and effect of wear friction and lubrication on artificial joints The important aspects of biocompatibility and wear resistance are reviewed and a retrospective analysis of modern joint endoprosthesis designs is presented Data on clinical aspects of endoprosthetics are cited in support of the text Advancements in genetic engineering and promising new techniques of designing bone and cartilage transplants are explored and a critical comparison between tribological mechanisms of operation and natural joint functioning are made An exceptional resource for all specialists in orthopedy biophysics immunology and engineers engaged in developing artificial joints

**Plastics for Corrosion Inhibition** V.A. Goldade, L.S. Pinchuk, A.V. Makarevich, V.N. Kestelman, 2006-03-30 One of the key problems of failure free operation of machinery is prevention of corrosion The global scale of modern production makes this problem even more critical At the beginning of the 21st century industrial contamination and the corrosion active nature of the environment reached a level such that corrosive damage of materials became commensurate with their production volume and expenditure on anticorrosion protection of machines became comparable with investments in basic production Anticorrosion techniques changed from being an auxiliary service to industrial enterprises into a developing scientifically intensive and generously financed branch of production Polymers occupy a very specific place amongst anticorrosion techniques Polymers combine good chemical resistance with impermeability to different media and unusual deformation characteristics The main principle of their application as anticorrosion means is the creation of a tight barrier that insulates metal machine parts or constructions from corrosion agents The advantages of polymers allow the creation of such a barrier at minimal cost providing protection of the working machines from corrosion combining their manufacture with preservation and decreasing the cost of anticorrosion This is one of the main reasons why world production of polymer materials increased by almost 50% in the past decade

*Novel Delivery Systems for Transdermal and Intradermal Drug Delivery* Ryan F. Donnelly, Thakur Raghu Raj Singh, 2015-09-28 This research book covers the major aspects relating to the use of novel delivery systems in enhancing both transdermal and intradermal drug delivery It provides a review of transdermal and intradermal drug delivery including the history of the field and the various methods employed to produce delivery systems from different materials such as device design construction and evaluation so as to provide a sound background to the use of novel systems in enhanced delivery applications Furthermore it presents in depth analyses of recent developments in this exponentially growing field with a focus on microneedle arrays needle free injections nanoparticulate systems and peptide carrier type systems It also covers conventional physical enhancement strategies such as tape stripping sonophoresis iontophoresis electroporation and thermal suction laser ablation Discussions about the penetration of the stratum corneum by the various novel strategies highlight the importance of the application method Comprehensive and critical reviews of transdermal and intradermal delivery research using such systems focus on the outcomes of in vivo animal and human studies The book includes laboratory clinical and commercial case studies featuring safety and patient acceptability studies carried

out to date and depicts a growing area for use of these novel systems is in intradermal vaccine delivery The final chapters review recent patents in this field and describe the work ongoing in industry

Fundamentals of Electromagnetics with Engineering Applications Stuart M. Wentworth,2005

**Integration of CMOS and Electret for Autonomous Microsystems** Myongseob Kim,2005

Adhesion of Polymers Vladimir Kestelman,Roman Veslovsky,2001-12-05 Current applications for bonding and sealing are expensive and time consuming Adhesion of Polymers presents a state of the art method for improving bonds and sealing strength between different materials underwater and in the human body This time and cost efficient technology will allow engineers to create or repair stronger seals in underwater pipes repair ships at sea even bond and seal tissues in the body

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